CLAIMS

What is claimed is:

1. A method comprising:

examining a plurality of nodes within a media timeline, wherein:

the media timeline is for exposure over an application programming interface (API); and

one or more said nodes reference respective media; and

dividing the media timeline into one or more presentations, wherein each said presentation describes a rendering of the media for a particular interval of time.

- 2. A method as described in claim 1, wherein each said presentation describes a collection of software components that, when executed, provides the described rendering.
 - 3. A method as described in claim 1, wherein:

each said presentation describes a collection of software components that, when executed, provides the described rendering for the particular interval of time.

4. A method as described in claim 1, wherein:

each said presentation describes a respective partial topology of software components; and

the respective partial topology is for resolving into a full topology that references each software component utilized to render a respective said presentation.



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5. A method as described in claim 1, wherein:

each said presentation describes a collection of software components that, when executed, provides the described rendering of the media for the particular interval of time; and

the method further comprises:

loading each said software component described by a first said collection; executing each said software component described by the first said collection; and

loading each said software component described by a second said collection.

- 6. A method as described in claim 5, wherein each said software component that is described by the second said collection is loaded during the executing of the first said collection.
- 7. A method as described in claim 1, further comprising receiving a request from the application over the API to render the media timeline.
- 8. A method as described in claim 1, wherein at least one said node is configured to reference an effect to be applied to an output of said media referenced by the node.



- 9. A method as described in claim 1, wherein at least one said node is specified as read-only.
- 10. A method as described in claim 1, wherein at least one said node is configured for communication of events to another said node such that a change may be made to the media timeline while the media timeline is rendered.
- 11. One or more computer readable media comprising computer executable instruction that, when executed on a computer, direct the computer to perform the method of claim 1.

12. A method comprising:

receiving a call from an application over an API for rendering a media timeline, wherein:

the media timeline includes a plurality of nodes;

two or more said nodes reference respective media; and

the media timeline defines one or more presentations including said media; and

rendering the media timeline to output each said presentation.

13. A method as described in claim 12, wherein the rendering further comprises:

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examining the media timeline; and



dividing the media timeline into the one or more presentations, wherein each said presentation describes a collection of software components utilized to render said media for a particular interval of time.

14. A method as described in claim 12, wherein the rendering further comprises dividing the media timeline into the one or more presentations such that:

each said presentation describes a collection of software components utilized to render said media for a particular interval of time; and

each said collection does not change for the particular interval of time described by a respective said presentation.

15. A method as described in claim 12, wherein the rendering further comprises dividing the media timeline into the one or more presentations such that:

each said presentation describes a respective partial topology of software components; and

the respective partial topology is for resolving into a full topology that references each software component utilized to provide a respective said presentation.

16. A method as described in claim 12, wherein:

the rendering further comprises dividing the media timeline into the one or more presentations such that each said presentation describes a collection of software components utilized to render said media for a particular interval of time; and

the method further comprises:



loading each said software component described by a first said collection; executing each said software component described by the first said collection; and

loading each said software component described by a second said collection.

- 17. A method as described in claim 12, wherein at least one said node is configured to reference an effect to be applied to an output of said media referenced by the node.
- 18. A method as described in claim 12, wherein at least one said node is configured for communication of events to another said node such that a change may be made to the media timeline while the media timeline is rendered by performing at least one of the following:

changing to a property of the at least one said node;

adding one or more additional said nodes as a child to the at least one said node;

removing one or more said nodes that are children of the at least one said node;

adding an effect to the at least one said node; and removing an effect from the at least one said node.

19. One or more computer readable media comprising computer executable



instruction that, when executed on a computer, configure the computer to perform the method of claim 12.

20. One or more computer-readable media comprising computer executable instructions that, when executed on a computer, direct the computer to divide a media timeline into one or more presentations, wherein:

the media timeline is for exposure via an API to one or more applications;

the media timeline includes a plurality of nodes;

at least two said nodes reference respective media; and

each said presentation describes rendering of respective said media for a particular interval of time.

- 21. The one or more computer-readable media as described in claim 20, wherein each said presentation describes a collection of software components that, when executed, provide the described rendering of said media for the particular interval of time.
- 22. The one or more computer-readable media as described in claim 20, wherein:

each said presentation describes a collection of software components that, when executed, provide the described rendering of said media for the particular interval of time; and

each said collection does not change for the particular interval of time described



by a respective said presentation.

23. The one or more computer-readable media as described in claim 20, wherein:

each said presentation describes a respective partial topology of software components; and

the respective partial topology is for resolving into a full topology that references each software component utilized to provide a respective said presentation.

- 24. The one or more computer-readable media as described in claim 20, wherein at least one said node is configured to reference an effect to be applied to an output of media referenced by the node.
- 25. The one or more computer-readable media as described in claim 20, wherein at least one said node is configured for communication of events to another said node such that a change may be made to the media timeline while the media timeline is rendered.
 - 26. A system comprising:

a plurality of media;

a plurality of applications; and

an infrastructure layer that:

provides an API for the plurality of applications which exposes a media



timeline that describes one or more presentations of the plurality of media; and manages rendering of the one or more presentations.

- 27. A system as described in claim 26, wherein each said presentation describes rendering of said media for a particular interval of time.
- 28. A system as described in claim 26, wherein each said presentation:

 describes rendering of said media for a particular interval of time; and

 describes a collection of software components that, when executed, provide the

 described rendering.
- 29. A system as described in claim 26, wherein each said presentation: describes rendering of said media for a particular interval of time; describes a collection of software components that, when executed, provide the described rendering; and

the collection does not change for the particular interval of time described.

30. A system as described in claim 26, wherein each said presentation:

describes rendering of said media for a particular interval of time;

describes a respective partial topology that reference one or more software

components that, when executed, provide the described rendering;

the respective partial topology is for resolving into a full topology that references each software component that provide the rendering.



31. A system as described in claim 26, wherein:

the media timeline includes a plurality of nodes;

at least two said nodes reference respective said media; and

at least one said node is configured to reference an effect to be applied to an output of media referenced by the node.

32. A system as described in claim 26, wherein

the media timeline includes a plurality of nodes;

at least two said nodes reference respective said media; and

at least one said node is configured for communication of events to another said node such that a change may be made to the media timeline while the media timeline is rendered.

33. A timeline source comprising computer instructions that, when executed by a computer, provide:

means for dividing a media timeline into one or more presentations each describing a rendering of one or more media during a particular interval of time, wherein the media timeline exposes a plurality of nodes to the plurality of applications, wherein one or more said nodes reference respective said media;

means for determining a topology for each said presentation, wherein the topology references a collection of software components that, when executed, provides the rendering; and



media processor means for executing the topology for each said presentation that is described by the media timeline.

- 34. The timeline source as described in claim 33, wherein each said collection does not change for the particular interval of time described by a respective said presentation.
- 35. The timeline source as described in claim 33, wherein the topology is a partial topology is for resolving into a full topology that references each software component utilized to provide a respective said presentation.
- 36. The timeline source as described in claim 33, wherein at least one said node is configured to reference an effect to be applied to an output of said media referenced by the node.
- 37. The timeline source as described in claim 33, wherein at least one said node is configured for communication of events to another said node such that a change may be made to a property of the at least one said node while the media timeline is rendered.
- 38. The timeline source as described in claim 33, wherein the media timeline is configured for dynamic creation such that at least one said node is created while the media timeline is rendered.



- 39. The timeline source as described in claim 33, wherein the media timeline is configured for dynamic loading such that metadata included in at least one said node specifies a collection of said nodes to be loaded when the media timeline is rendered.
- 40. The timeline source as described in claim 33, wherein at least one said node is specified as read-only.
- 41. The timeline source as described in claim 33, further comprising means for translating a time specified by one said node for rendering the one said node with respect to a time specified by another said node.

